WILLOUGHBY & HOEFE

ATTORNEYS & COUNSELORS AT LAW

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MITCHELL M. WILLOUGHBY JOHN M.S. HOEFER RANDOLPH R. LOWELL TRACEY C. GREEN BENJAMIN P. MUSTIAN **ELIZABETH ZECK*** ELIZABETHANN LOADHOLT CARROLL CHAD N. JOHNSTON JOHN W. ROBERTS

*ALSO ADMITTED IN TX

June 6, 2013

AREA CODE 803 **TELEPHONE 252-3300** TELECOPIER 256-8062

VIA HAND DELIVERY

Columbia, South Carolina 29211

The Honorable Jocelyn G. Boyd Chief Clerk/Administrator **Public Service Commission of South Carolina** Post Office Box 11649

> RE: Application of Utilities Services of South Carolina, Inc. for adjustment of rates and charges and modifications to certain terms and conditions for the provision of water and sewer service. Docket No.: 2007-286-WS

Dear Ms. Boyd:

This follows up on my letter to you of June 4, 2013, forwarding the results of the calendar year 2011 water audit conducted by Utilities Services of South Carolina, Inc. ("USSC") on the systems identified in the Order No. 2013-77 in the above-referenced docket.

Enclosed please find a table setting forth the results of the calendar year 2012 audit of these systems along with copies of the "reporting worksheet" for each such system generated by the American Waterworks Association ("AWWA") program referenced in my earlier letter. In view of the fact that portions of the reporting worksheets have shading which may hinder the legibility of these documents, I am also enclosing a flash drive containing all of the reporting worksheets. An electronic version of the documents contained on the flash drive is also being previously provided to ORS.

By copy of this letter, I am serving a copy of these documents (and a duplicate flash drive) upon the only other party of record, the Office of Regulatory Staff, and enclose a Certificate of Service to that effect.

If you have any questions, or if you need any additional information, please do not hesitate to contact me. With best regards, I am

Sincerely,

WILLOUGHBY & HOEFER, P.A.

John M.S. Hoefer

JMSH/sw Enclosures

cc: Nanette S. Edwards, Esquire

Jeffrey Nelson, Esquire (w/out enclosure)



BEFORE

THE PUBLIC SERVICE COMMISSION OF 2013 JUN -6 PM 4:31

SOUTH CAROLINA

SC PUBLIC SERVICE

DOCKET NO. 2007-286-WS

IN RE:)	
Application of Utilities Services of South Carolina, Inc. for adjustment of rates and charges and modifications to certain terms and conditions for the provision of water and sewer service.))))	CERTIFICATE OF SERVICE

This is to certify that I have caused to be served this day one (1) copy of Utilities Services of South Carolina, Inc.'s **June 6, 2013 Letter** via hand delivery to the following address:

Nanette S. Edwards, Esquire
Office of Regulatory Staff
1401 Main Street, Suite 900
Columbia, South Carolina 29201

Sheila Wright

Columbia, South Carolina This 6th day of June, 2013.

AWWA WLCC Free Water Audit Software Copyright 2010, American Water Works, Association, All Rights	A SECURIT OF THE PARTY OF THE P	Back to Instructions		
Click to access definition Water Audit Report for: Brown Neal Reporting Year: 2012	1/2012 - 12/2012			
Please enter data in the white cells below. Where available, metered values should be used; if m	etered values are unavallable plasse estimate a value. Indicat			
input data by grading each component (1-10) using the drop-down list to the left of the input cell. All volumes to be enter	Hover the mouse over the cell to obtain a description of the graded as: MILLION GALLONS (US) PER YEAR	ades		
WATER SUPPLIED Volume from own sources:	Enter grading in column 'E' 0.823 Million gallons (US)/yr (MC			
Master meter error adjustment (enter positive value): 2 1 Water imported: 7 n/a	0.000 over-registered 0.000 MG/Yr	MG/Yr		
Water exported: 22 n/e	0.000 Mg/Xx			
WATER SUPPLIED: AUTHORIZED CONSUMPTION	0.823 MG/Yr	Click here:		
Billed metered: 8 8 Billed unmetered: 92 10	0.698 MG/Yr 0.000 MG/Yr	for help using option buttons below		
Unbilled metered: 20 n/a Unbilled unmetered: 20 n/a	0.000 MS/Yr Pont: 0.010 MS/Yr 1.25			
Default option selected for Unbilled unmetered - a gra	ding of 5 is applied but not displayed	Use buttons to select		
AUTHORIZED CONSUMPTION: 17	0.709 HS/Yz	percentage of water supplied QR		
WATER LOSSES (Water Supplied - Authorised Consumption)	0.115 MG/Yr	value		
Unauthorized consumption:	0.002 MG/Yr 0.25			
Default option selected for unauthorized consumption - a grade Customer metering inaccuracies:	0.014 MG/Yr 2.00	* ● ○		
Systematic data handling errors: 5	0.000 MG/YE	Choose this option to		
Apparent Lossea:	0.016	enter a percentage of billed metered consumption. This is		
Real Losses (Current Annual Real Losses or CARL) Real Losses = Water Losses - Apparent Dosses;	0,098 MG/Yr	NOT a default value		
WATER LOSSES:	0.115 MG/YE			
NON-REVENUE WATER NON-REVENUE WATER:	0.125 Mg/Yr			
- Total Water Loss + Unbilled Metered + Unbilled Unmetered SYSTEM DATA				
Length of mains: 2	0.5 miles			
Number of active AND inactive service connections: Connection density: Average length of customer service line:	40 conn./mile main	between curbstop and customer		
Average operating pressure:	45.0 psi	perty boundary)		
COST DATA Total annual cost of operating water system: [2] [1]	\$3,818 \$/Year			
Customer retail unit cost (applied to Apparent Lonses): 2 13 Variable production cost (applied to Real Lonses): 2 10	\$9.02 \$/1000 gallons (US) \$884.08 \$/Million gallons			
PERFORMANCE INDICATORS				
Financial Indicators				
Non-revenue water as percent by volume of Non-revenue water as percent by cost of or	perating system: 6.4%			
	of Real Losses: \$148			
Operational Efficiency Indicators Apparent Losses per service conn	section per day: 2.25 gallo	ons/connection/day		
Real Losses per service conne		ons/connection/day		
Real Losses per length of				
Real Losses per service connection per day pe Unavoidable Annual Real	r psi pressure: 0.30 gallo Losses (UARL): Not Valid	ons/connection/day/psi		
*** UARL cannot be calculated as either average pressure, number of From Above, Real Losses = Current Annual Re	of connections or length of mains is too small	: SEE WARL DEFINITION ***		
Infrastructure Leakage Index (II				
• only the most applicable of these two indicators will be calculated				
WATER AUDIT DATA VALIDITY SCORE:				
	: 63 out of 100 ***	Budie Data Validity Score		
A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score PRIORITY AREAS FOR ATTENTION:				
Based on the information provided, audit accuracy can be improved by addressing the following components:				
1: Volume from own sources 2: Customer metering inaccuracies For more information, click here to see the Grading Matrix worksheet				
3: Unauthorized consumption				

AWWA WLCC Free Water Audit St Copyright 0 2010 American Widor Works Ass		The state of the s	The second second	Back to Instructions
Click to access definition Water Audit Report for:	The state of the s	/2012 - 12/2012		
Please enter data in the white cells below. Where available, metered values sho input data by grading each component (1-10) using the drop-down list to the left	uld be used; if mete of the input cell. Ho	ver the mouse over th		
WATER SUPPLIED	The second second	nter grading in	Contribution of the Contri	
Volume from own sources: Master meter error adjustment (enter positive value):	7.4 1		Million gallons (US) over-registered	/yr (NG/Yr) NG/Yr
Water imported: Water exported:	n/a n/a		MG/Yr MG/Yr	
WATER SUPPLIED:		4.245	MG/Yr	
AUTHORIZED CONSUMPTION Billed metered:	2 8	3.385	HG/Yz	Click here:
Billed unmetered: Unbilled metered:	2 10 n/a		MG/Yr	Pont: Value:
Unbilled unmetered: Default option selected for Unbilled unmete	red - a grad:	0.053 ing of 5 is app		1.25 ● O
AUTHORIZED CONSUMPTION;	77	3.438	MG/Yr	Use biftions to select percentage of water supplied OR Value
WATER LOSSES (Water Supplied - Authorized Consumption Apparent Losses		0.807	HG/Yr	Pont: Value:
Unauthorized consumption: Default option selected for unauthorized consumpt.	CO CONTRACTOR OF THE PARTY OF T			0.25% ● ○ yed
Customer metering inaccuracies: Systematic data handling errors:	24 4 5	0.069	MG/Yr MG/Yr	2.00%
Apparent Losses:		0.080		Choose this option to enter a percentage of billed metered
Real Losses (Current Annual Real Losses or CARL). Real Losses = Water Losses - Apparent Losses:		0.727	MG/Yr	oonsumption. This is NOT a default value
WATER LOSSES:				
NON-REVENUE WATER NON-REVENUE WATER:	2	0.860	MG/Yr	
- Total Water Loss + Unbilled Metered + Unbilled Unmetered SYSTEM DATA		uni de la		
Length of mains: Number of <u>active AND inactive</u> service connections: Connection density:	2 2 8	2.2 87 40	miles conn./mile main	
Average length of customer service line:	9		ft (pipe	o length between curbstop and customer c or property boundary)
Average operating pressure:	7 1	70.0	psi	
COST DATA				
Total annual cost of operating water system: Customer retail unit cost (applied to Apparent Lorses): Variable production cost (applied to Real Lorses):	10 10 10	\$10.06	\$/1000 gallons (US \$/Million gallons)
PERFORMANCE INDICATORS				
Financial Indicators Non-revenue water as percent by Non-revenue water as percent by			20.3	
Annua	l cost of App	parent Losses: f Real Losses:	\$80 \$16	
Operational Efficiency Indicators				
Apparent Losses per s Real Losses per se			the state of the s	1 gallons/connection/day 1 gallons/connection/day
Real Losses pe	er length of	main per day:	N/	A
Real Losses per service connection				3 gallons/connection/day/psi
*** UARL cannot be calculated as either average pressu	ire, number of		ength of mains is too	
From Above, Real Losses - Curre Infrastructure Leakag				
* only the most applicable of these two indicators will be	calculated			
WATER AUDIT DATA VALIDITY SCORE:			100 +++	
A weighted scale for the components of consumption and				Water Audit Data Validity Score
PRIORITY AREAS FOR ATTENTION: Based on the information provided, audit accuracy can 1. Volume from our sources	n be improved	by addressing	the following comp	onents:
1: Volume from own sources 2: Customer metering inaccuracies	Fore	nore information, o	click here to see the Gra	ding Matrix worksheet
3: Unauthorized consumption				

AWWA WLCC Free Water Audit Software Copyright C 2018 American Water Works Association All Righ	Back to Instructions			
Click to access definition Water Audit Report for: Charwood Reporting Year: 2012	1/2012 - 12/2012			
input data by grading each component (1-10) using the drop-down list to the left of the input cell	netered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the Hover the mouse over the cell to obtain a description of the grades red as: MILLION GALLIONS (US) PER YEAR			
	Enter grading in column 'E'			
Volume from own sources: 2 4 Master meter error adjustment (enter positive value): 7 1	19.995 Million gallons (US)/yr (MG/Yr) 0.000 [over-registered MG/Yr			
Water imported: n/a Water exported: n/a	0.000 MG/Yx 0.000 MG/Yx			
WATER SUPPLIED:	19.995 Mg/Yr			
AUTHORIZED CONSUMPTION Billed metered:	Click here: 16.687 Mg/Yr for help using option			
Billed unmetered: 10 10 Unbilled metered: 20 n/s	0.000 MG/Yr buttons below 0.000 MG/Yr Pont: Value:			
Unbilled unmetered:	0.250 Mg/Yx 1.251 @ O			
Default option selected for Unbilled unmetered - a gr AUTHORIZED CONSUMPTION:	ading of 5 is applied but not displayed 16.937 Mg/Yr Use bluttons to select			
	percentage of water supplied OR			
WATER LOSSES (Water Supplied - Authorized Consumption) Apparent Losses	3.058 MG/Yr Pent: Value:			
Unauthorized consumption:	0.050 Mg/Yr 0.25N ● O			
Default option selected for unauthorized consumption - a graph of the cons	ading of 5 is applied but not displayed 0.341 Mg/Yz 2.00% ①			
Systematic data handling errors: 5	0.000 Ms/Yz Choose this option to			
Apparent Losses:	0.391 enter a percentage of billed metered			
Real Losses (Current Annual Real Losses or CARL)	consumption. This is NOT a default value			
Real Losses - Water Losses - Apparent Losses:	2.667 MG/Yr 3.058 Mg/Yr			
NON-REVENUE WATER				
NON-REVENUE WATER: 7	3.308 M9/Yr			
SYSTEM DATA				
Length of mains: 2 4 Number of active AND inactive service connections: 2 8	6.3 miles 279			
Connection density: <u>Average</u> length of customer service line: [23] 8	20.0 ft (pipe length between curbstop and customer metar or property boundary)			
Average operating pressure:	75.0 psi			
COST DATA Total annual cost of operating water system: 10	\$34,078 \$/Year			
Customer retail unit cost (applied to Apparent Losses): 2 10 Variable production cost (applied to Real Losses): 2 10	\$8.56 \$/1000 gallons (US) \$243.08 \$/Hillion gallons			
PERFORMANCE INDICATORS Financial Indicators				
Non-revenue water as percent by volume of Non-revenue water as percent by cost of c				
Annual cost of	Apparent Losses: \$3,344 of Real Losses: \$648			
Operational Efficiency Indicators				
Apparent Losses per service cor				
Real Losses per service conr Real Losses per length o				
Real Losses per service connection per day p				
	l Losses (UARL): Not Valid			
From Above, Real Losses - Current Annual R	of connections or length of mains is too small: SEE UARL DEFINITION *** eal Losses (CARL): 2.67			
Infrastructure Leakage Index (1	LI) [CARL/UARL]:			
* only the most applicable of these two indicators will be calculated				
HATER AUDIT DATA VALIDITY SCORE:	S: 64 out of 100 ***			
	S: 64 out of 100 *** s is included in the calculation of the Water Audit Data Validity Score			
PRIORITY AREAS FOR ATTENTION:				
Based on the information provided, audit accuracy can be improved by addressing the following components:				
1: Volume from own sources 2: Customer metering inaccuracies For more information, click here to see the Grading Matrix worksheet				
3: Unauthorized consumption				

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Click to access definition Water Audit Report for: Clearview Reporting Year: 2012	1/2012 - 12/2012	
Please enter data in the white cells below. Where available, metered values should be used; if m input data by grading each component (1-10) using the drop-down list to the left of the input cell.	etered values are unavallable piesse estimata a value. Indicate	your confidence in the accuracy of the
	ed as: MILLION GALLONS (US) PER YEAR	
Volume from own sources: n/a	Enter grading in column 'E' 0.000 Million gallons (US)/yr (MG,	A TORNE OF THE PARTY OF THE PAR
Master meter error adjustment (enter positive value): 1 Water imported: 4 Water exported: 7 n/a	0.000 over-registered 2.848 MG/Yr 0.000 MG/Yr	MG/Yr
WATER SUPPLIED:	2.848 M3/Yr	
AUTHORIZED CONSUMPTION Billed metered: [2] 8	3.148 Mg/Yr	Click here:
Billed unmetered: 2 10 Unbilled metered: 2 n/a	0.000 MG/Yr 0.000 MG/Yr Pont:	buttons below Value:
Unbilled unmetered: Default option selected for Unbilled unmetered - a gra	0.036 MG/Yr 1.25% ding of 5 is applied but not displayed	
AUTHORIZED CONSUMPTION: 2 Check input values; WATER SUPPLIED should be great	3.160 MG/Yr ter than AUTHORIZED CONSUMPTION	Use buttons to select percentage of water supplied OR
WATER LOSSES (Water Supplied - Authorized Consumption) Apparent Losses	-0.335 MG/Yr	value - Value:
Unauthorized consumption: Default option selected for unauthorized consumption - a gra-	0.007 MG/Yr 0.25%	
Customer metering inaccuracies:	0.064 Mg/Yr 2.00%	
Apparent Losses:	0.000 NJ11	Choose this option to enter a percentage of
Check input values; APPARENT LOSSES should be	less than WATER LOSSES	billed metered consumption. This is NOT a default value
Real Losses - Water Losses - Apparent Losses;	-0.406 MG/Yz -0.335 MG/Yz	
NON-REVENUE WATER		
NON-REVINUE WATER: 7	-0.299 Mg/Yf	
Length of mains: 2 2 Number of active AND inactive service connections: 50 8	1.4 miles	
Connection density: Average length of customer service line: 7 8	43 conn./mile main 0.0 ft (pipe length	between sugbstop and customer
Average operating pressure: 7 1	50.0 psi	erty boundary)
COST DATA		
Total annual cost of operating water system: 10 10 Customer retail unit cost (applied to Apparent Losses): 2 10	\$9,206 \$/Year \$6.69 \$/1000 gallons (US)	
Variable production cost (applied to Real Desses): 10	\$817.18 \$/Million gallons	
PERFORMANCE INDICATORS Financial Indicators		
Non-revenue water as percent by volume of Non-revenue water as percent by cost of op		
Annual cost of A Annual cost	pparent Losses: \$478 of Real Losses: -\$332	
Operational Efficiency Indicators Apparent Losses per service Conn	section per day: 3.21 gallon	ns/connection/day
Real Losses per service conne	ection per day*: -18.25 gallon	as/connection/day
Real Losses per length of Real Losses per service connection per day pe		ns/connection/day/psi
Unavoidable Annual Real	Losses (UARL): Not Valid	
From Above, Real Losses - Current Annual Re		SEE OARS BESTATION
• only the most applicable of these two indicators will be calculated	I) [CARL/UARL]:	
WATER AUDIT DATA VALIDITY SCORE:		
	: 63 out of 100 ***	
A weighted scale for the components of consumption and water loss PRIORITY AREAS FOR ATTENTION:	is included in the calculation of the Water A	udit Data validity Score
Based on the information provided, audit accuracy can be improv 1: Water imported	ed by addressing the following components:	
	r more information, click here to see the Grading Mai	trix worksheet
3: Unauthorized consumption	Saverities of Albertain	

AWWA WLCC Free Water Audit So		THE R. P. LEWIS CO., LANSING, MICH.		Back to Instructions
Gopyrget © 2010, American Water Works Ass		isersed.	WASV42	
Click to access definition Water Audit Report for: Reporting Year:	2012 1	/2012 - 12/2012		
Please enter data in the white cells below. Where available, metered values shot input data by grading each component (1-10) using the drop-down list to the left of All volume. All volume	of the input cell. Ho	ered values are unavailable pover the mouse over the cell it as: MILLION GALLONS	to obtain a description of the grad	your confidence in the accuracy of the les
WATER SUPPLIED	<< E	nter grading in col	lumn 'E'	
Volume from own sources: Master meter error adjustment (enter positive value):	2 4		lion gallons (US)/yr (MG/ r-registered	Yr) MG/Yr
Water imported: Water exported:	7 5 n/a	2.165 MG/Y 0.000 MG/Y	(z	
WATER SUPPLIED:	174	8.086 Mg/Y		
AUTHORIZED CONSUMPTION				Click here:
Billed metered: Billed unmetered:	7 B	7.241 MG/Y 0.000 MG/Y		for help using option buttons below
Unbilled metered:	2 9	0.088 MG/Y	fr Pont:	Value:
Unbilled unmetered: Default option selected for Unbilled unmete	red - a grad	0.101 MG/Y ing of 5 is applied		
AUTHORIZED CONSUMPTION:		7.430 MG/Y	(c	Use buttons to select percentage of water supplied
				OR value —
WATER LOSSES (Water Supplied - Authorized Consumption) Apparent Losses		0.656 MG/Y	fr Pont:	Value:
Unauthorized consumption:		0.020 MG/Y	CONTRACTOR OF THE PARTY OF THE	● O
Default option selected for unauthorized consumpti	ion - a gradi	THE RESERVE OF THE PARTY OF THE	NAME OF TAXABLE PARTY.	
Customer metering inaccuracies: Systematic data handling errors:	7 5	0.150 MG/Y 0.000 MG/Y	STATE OF THE OWNER, WHEN PARTY AND ADDRESS OF TH	
Apparent Losses:		0.170		Choose this option to enter a percentage of billed metered consumption. This is
Real Losses (Current Annual Real Losses or CARL)				NOT a default value
Real Losses - Water Losses - Apparent Losses: WATER LOSSES:		0.486 MG/Y		
NON-REVENUE HATER				
NON-REVENUE WATER:	2	0.845 Mg/Y	Yr.	
- Total Water Loss + Unbilled Metered + Unbilled Unmetered SYSTEM DATA				
Length of mains:	? 2	1.0 mile 139	os .	
Number of <u>active AND inactive</u> service connections: Connection density:	23 8	139 conn	n./mile main	
Average length of customer service line:	7 9	0.0 ft	(pipe length t	petween curbstop and customer erty boundary)
Average operating pressure:	1	55.0 psi		
COST DATA		A STATE OF THE REAL PROPERTY.		
Total annual cost of operating water system:	10	\$23,194 \$/Ye		
Customer retail unit cost (applied to Apparent Losses): Variable production cost (applied to Real Losses):	7 10		000 gallons (US)	
PERFORMANCE INDICATORS Financial Indicators				
Non-revenue water as percent by			10.4%	
	l cost of Ap	parent Losses:	\$1,532	
Operational Efficiency Indicators	nnual cost o	f Real Losses:	\$236	
Apparent Losses per s	ervice conne	ction per day:	3.35 gallon	s/connection/day
Real Losses per se	rvice connec	tion per day*:	9.58 gallon	s/connection/day
Real Losses pe	r length of	main per day*:	N/A	
Real Losses per service connection				s/connection/day/psi
Unavoidable *** UARL cannot be calculated as either average pressu		Losses (UARL): Not		SEE UARL DEFINITION ***
From Above, Real Losses - Curren		po-	0.49	Was several and the property of the second
Infrastructure Leakag	je Index (ILI) [CARL/UARL]:		
* only the most applicable of these two indicators will be	calculated			
WATER AUDIT DATA VALIDITY SCORE:				
	- The second Second Second	64 out of 1		
A weighted scale for the components of consumption and	i water loss i	s included in the cal	lculation of the Water A	udit Data Validity Score
PRIORITY AREAS FOR ATTENTION: Based on the information provided, audit accuracy can	n be improve	by addressing the	following components:	
1: Volume from own sources	. Do Improved	-1 gaggeouting rue		
2: Water imported	For	nore information, click t	here to see the Grading Mat	rix worksheet
3: Customer metering inaccuracies	H. CYNILL			

AWWA WLCC Free Water Audit S Gapynot © 2010 American Water Works As		The state of the s	g Worksheet	Back to Instructions
Click to access definition Water Audit Reporting Year:		/2012 - 12/2012	CALL SECTION OF THE S	
Please enter data in the white cells below. Where available, metered values sho input data by grading each component (1-10) using the drop-down list to the left	ould be used; if meter of the input cell, Hig	over the mouse over th		
WATER SUPPLIED	<< E	inter grading is	n column 'E'	
Volume from own sources: Haster meter error adjustment (enter positive value):	7 1	0.000	Million gallons (US)/yr (MG, over-registered	/Yr)]MG/Yr
Water imported: Water exported:		0.648	MG/Yr MG/Yr	
WATER SUPPLIED:		0.648	MG/YE	
AUTHORIZED CONSUMPTION Billed metered:	STATE OF THE OWNER, TH	0.761	MG/Yr	Click here:
Billed unmetered: Unbilled metered:	n/a	0.000	Construction Likeling Flat Control of the Control o	buttons below Value:
Unbilled unmetered: Default option selected for Unbilled unmeter	CONTROL ST. SC.	ing of 5 is app	Putching the Street Control of the Street Co	• 0
AUTHORIZED CONSUMPTION: Check input values; WATER SUPPLIED sho		0.769	MG/Yr	Use buttons to select percentage of water supplied
WATER LOSSES (Water Supplied - Authorised Consumption			MG/Yr	QR Value
Apparent Losses			Pont:	Value:
Unauthorized consumption: Default option selected for unauthorized consumpt	No. of Concession, Name of Street, or other party of the last of t	ng of 5 is app	Dy March (March 1987) Committee (March 1987) Committee (March 1987)	0
Customer metering inaccuracies: Systematic data handling errors:	STATE OF TAXABLE PARTY.	0.016	MG/YE 2.00%	◎ ○
Apparent Losses:		DIST.		Choose this option to enter a percentage of
Check input values; APPARENT LOSSE	THE REAL PROPERTY.	less than WATER	LOSSES	billed metered consumption. This is
Real Losses - Current Annual Real Losses or CARL) Real Losses - Water Losses - Apparent Losses:		-0.139	MG/Yz	NOT a default value
WATER LOSSES:		-0.121	MG/Yr	
NON-REVENUE WATER NON-REVENUE WATER:	THE RESERVE OF THE PERSON NAMED IN	-0.113	MG/Yr	
- Total Water Loss + Unbilled Metered + Unbilled Unmetered SYSTEM DATA		aco de Suprassiones.		
Length of mains: Number of active AND inactive service connections:		0.3	miles	
Connection density: <u>Average</u> length of customer service line:		59 0.0	conn./mile main ft (pipe length	between curbstop and customer
Average operating pressure:		40.0	meter or prop	erty boundary)
Note: Average pressure this low wil				
COST DATA Total annual cost of operating water system:	10	\$2,223	\$/Year	
Customer retail unit cost (applied to Apparent Losses): Variable production cost (applied to Real Losses):	10	\$7.78	\$/1000 gallons (US) \$/Million gallons	
Variable positions of the same			37MIIIION GRIZONO	
PERFORMANCE INDICATORS Financial Indicators				
Non-revenue water as percent by Non-revenue water as percent by			-17.5% 4.9%	
Annua	al cost of App	parent Losses:	\$134 -\$26	
Operational Efficiency Indicators				
Apparent Losses per : Réal Losses per s				ns/connection/day
		main per day*:		ns/Connection/day
Real Losses per service connection	TO STANDARD BY			ns/connection/day/psi
Unavoidable *** UARL cannot be calculated as either average press		Losses (UARL):		CFE HART, DEFINITION ***
From Above, Real Losses - Curre				
Infrastructure Leaka) [CARL/UARL]:		
* only the most applicable of these two indicators will be WATER AUDIT DATA VALIDITY SCORE:	calculated			
No parent assertion and the second a	SCORE IS:	63 out of	£ 100 ***	
A weighted scale for the components of consumption an	d water loss i	s included in th	e calculation of the Water A	udit Data Validity Score
PRIORITY AREAS FOR ATTENTION:				
Based on the information provided, audit accuracy ca 1: Water imported	n be improved	i by addressing	the following components:	
2: Customer metering inaccuracies	Foru	nore information, o	click here to see the Grading Mat	trix worksheet
3: Unauthorized consumption				

AWWA WLCC Free Water Audit Software:	The state of the s	Back to Instructions
Water Avilla Parent Gray Pioliferate	TAIN OF THE PROPERTY OF THE PR	
	/2012 - 12/2012	
Please enter data in the white cells below. Where available, metered values should be used; if met input data by grading each component (1-10) using the drop-down list to the left of the input cell. He All Volumes to be entered.	ered values are unavaliable please estimate a value. Indicate y over the mouse over the cell to obtain a description of the grad It as: MILLION GALLONS (<u>US</u>) PER YEAR	our confidence in the accuracy of the es
	Enter grading in column 'E'	
Volume from own sources: 4 Haster meter error adjustment (enter positive value): 1		Yr) MG/Yr
Water imported: 7 n/a Water exported: 7 n/a	0.000 MG/Yr 0.000 MG/Yr	
WATER SUPPLIED:	1.413 MG/Yr	
AUTHORIZED CONSUMPTION Billed metered: [3] 8	1.364 MG/Yr	Click here: 7
Billed unmetered: 10	0.000 MG/YE	buttons below Value:
Unbilled unmetered:	0.018 MG/YE 1.25%	● O
Default option selected for Unbilled unmetered - a grad AUTHORIZED CONSUMPTION: 2	ing of 5 is applied but not displayed 1.382 MG/Yr	Use buttons to select
		percentage of water supplied OR value —
WATER LOSSES (Water Supplied - Authorised Consumption)	0.032 Mg/Yr	Aaine
Apparent Losses Unauthorized consumption:	0.004 MG/Yr 0.251	▼ Value:
Default option selected for unauthorized consumption - a gradi		
Systematic data handling errors: 5	0.028 MG/Yr 2.00% 0.000 MG/Yr	• 0
Apparent Losses:	0.031	Choose this option to enter a percentage of billed metered consumption. This is
Real Losses (Current Annual Real Losses or CARL) Real Losses - Water Losses - Apparent Losses:	0,000 MG/Yp	NOT a default value
WATER LOSSES:	0.032 NG/Yr	
NON-REVENUE WATER		
NON-REVENUE WATER:	0.049 Mg/Yn	
SISTEM DATA		
Length of mains: 2 2 Number of active AND inactive service connections: 8	0.3 miles 28	
Connection density: <u>Average</u> length of customer service line: 8	90 conn./mile main 0.0 ft (pipe length b	etween curbstop and customer
Average operating pressure: 1	55.0 psi	
COST DATA		
Total annual cost of operating water system:	\$7,108 \$/Year	
Customer retail unit cost (applied to Apparent Losses): 2 10 Variable production cost (applied to Rael Losses): 7 10	\$9.35 \$/1000 gallons (US) \$360.39 \$/Million gallons	
	ersupeautorealistoateuringsvandingsl	
PERFORMANCE INDICATORS Financial Indicators		
Non-revenue water as percent by volume of W		
Non-revenue water as percent by cost of ope Annual cost of Ap	parent Losses: \$294	
Operational Efficiency Indicators	f Real Losses: \$0	
Apparent Losses per service conne	ction per day: 3.08 gallons	s/connection/day
Real Losses per service connec		s/connection/day
Real Losses per service connection per day per		
Real Losses per service connection per day per Unavoidable Annual Real	Losses (UARL): Not Valid	s/connection/day/psi
*** UARL cannot be calculated as either average pressure, number of	connections or length of mains is too small:	SEE UARL DEFINITION ***
From Above, Real Losses - Current Annual Real Infrastructure Leakage Index (ILI		
* only the most applicable of these two indicators will be calculated		
WATER AUDIT DATA VALIDITY SCORE:		
*** YOUR SCORE IS:	58 out of 100 ***	
A weighted scale for the components of consumption and water loss i	s included in the calculation of the Water Au	dit Data Validity Score
PRIORITY AREAS FOR ATTENTION: Based on the information provided, audit accuracy can be improved	i by addressing the following some	
1: Volume from own sources	a of addressing the following components:	
2: Master meter error adjustment	more information, click here to see the Grading Matr	ix worksheet
3: Customer metering inaccuracies		

Cold visions in white Reporting News Cold C	AWWA WLCC Free Water Audit So		CONTRACTOR OF SHARP	orksheet WASV42	Back to Instructions
NATE OF THE CONTROL PROPERTY OF THE ANALYSIS O	CICK TO ACCUSS CUTINITION	THE RESIDENCE OF THE PERSON NAMED IN	/2012 - 12/2012	TENESEN AWSTREE	
Water story in the property of the story of	Please enter data in the white calls below. Where available, metared values sho input data by grading each component (1-10) using the drop-down list to the left	uld be used; if mete of the input cell, Ho	over the mouse over the cell to	o obtain a description of the grad	
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ANTHORITED COMMENDATION Silid anterest 1	Water imported:	4	3.708 MG/Y		
Billed materials 1 2,154 Movits 1 2,154 Movits 1 2,000 Movits 2,000					
Default option selected for managed a practice of the selection and the selection of the se	Proposition of the Control of the Co		3 254		Oliok Hele:
Default option salected for Device Interested - 20,005 serve 1,258 © 1,409 serve 1,258 © 1,409 serve 1,4	Billed unmetered:	10	0.000 MG/Y		buttons below
MATTER LOSSES (Nature Supplied - Authorized Consumption) 0.307 10/Tr	Unbilled unmetered:		0.046 MG/Y	1.25	
MATER LOSSES (Nature Supplied - Authorized Consumption) Apparent Losses Countoner metering inaccuracies Customer metering inaccuracies Apparent Losses: Apparent Losses: Apparent Losses: Apparent Losses: O.009 M/Yr Apparent Losses - Apparent Losses:			The same of the sa		
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Default option selected for numericated consumption - a grading of 51 as applied but not displayed continued to the continued of the continued)	0.307 Mg/Y:		
Customer metering inscentralists	Unauthorized consumption:	CONTRACTOR	The same of the sa	0.25	
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MATER LOSSES - Apparent Losses:			0.078		enter a percentage of billed metered consumption. This is
NON-REVENUE WATE: - Total Vater Loss * Unbilled Metered * Unwilled Unwatered - Total Vater Loss * Unbilled Metered * Unwilled Unwatered - Total Vater Loss * Unbilled Metered * Unwilled Unwatered - Total State Loss * Unbilled Metered * Unwilled Unwatered - Total State Loss * Unbilled Metered * Unwilled Unwatered - Total State Loss * Unbilled Metered * Unwilled Unwatered - Total State Loss * Unbilled Metered * Unwilled Unwatered - Total State Loss * Unbilled Metered * Unwilled Unwatered United State Loss * United State Loss * United State State Los	Real Losses - Water Losses - Apparent Losses:	The second second			NOT a default value
### STORM CATA Ength of mains:	NON-REVENUE WATER		e Zudosetulia diak		
Number of active AND inactive service connections: Consection danity:	NON-REVENUE WATER:	NO. OF THE OWNER, WHEN PERSON NAMED IN	0.353 Mg/Y		
Number of active AND inactive service connections: Connection density: Average length of customer service line: Average operating pressure: 1	SYSTEM DATA				
Average length of customer service line: Average operating pressure: 1	Number of active AND inactive service connections:	8	72		
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Annual cost of Apparent Losses: \$541 Annual cost of Real Losses: \$282 Coparational Efficiency Indicators Apparent Losses per service connection per day: 2.96 gallons/connection/day Real Losses per service connection per day*: N/A gallons/connection/day Real Losses per length of main per day*: 152.29 gallons/mile/day Real Losses per service connection per day per psi pressire: gallons/connection/day/psi *** UARL cannot be calculated as either average pressure, number of connecions or length of mains is too small: SEE UARL DEFINITION *** From Above, Real Losses = Current Annual Real Losses (CARL): 0.23 Infrastructure Leakage Index (ILI) [CARL/UARE]: ** only the most applicable of these two indicators will be calculated WATER AUDIT DATA VALIDITY SCORE: *** YOUR SCORE IS: 63 out of 100 *** A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score PRIORITY AREAS FOR ATTENTION: Based on the information provided, audit accuracy can be improved by addressing the following components: 1: Water imported 2: Customer metering inaccuracies For more information, click here to see the Grading Matrix worksheet	Non-revenue water as percent by		INSAHADD AND TRUTHS OF		
Apparent Losses per service connection per day: Real Losses per service connection per day: Real Losses per service connection per day: Real Losses per length of main per day: Real Losses per service connection per day: Real Losses per service connection per day: Real Losses per service connection per day per psi pressure: gallons/connection/day/psi Unavoidable Annual Real Losses (UARL): Not Valid """ UARL cannot be calculated as either average pressure, number of connections or length of mains is too small: SEE UARL DEFINITION """ From Above, Real Losses = Current Annual Real Losses (CARL): O.23 Infrastructure Leakage Index (ILI) [CARL/UARL): """ Only the most applicable of these two indicators will be calculated WATER AUDIT DATA VALIDITY SCORE: *** YOUR SCORE IS: 63 out of 100 *** A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score PRIORITY AREAS FOR ATTENTION: Based on the information provided, audit accuracy can be improved by addressing the following components: 1: Water imported 2: Customer metering inaccuracies For more information, click here to see the Grading Matnx worksheet	Annua	al cost of App	parent Losses:	\$541	
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Unavoidable Annual Real Losses (UARL): Not Valid *** UARL cannot be calculated as either average pressure, number of connecions or length of mains is too small: SEE UARL DEFINITION *** From Above, Real Losses = Current Annual Real Losses (CARL): 1. Infrastructure Leakage Index (ILI) [CARL/UARL): * only the most applicable of these two indicators will be calculated WATER AUDIT DATA VALIDITY SCORE: *** YOUR SCORE IS: 63 out of 100 *** A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score PRIORITY AREAS FOR ATTENTION: Based on the information provided, audit accuracy can be improved by addressing the following components: 1: Water imported 2: Customer metering inaccuracies For more information, click here to see the Grading Matrix worksheet					
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1: Water imported 2: Customer metering inaccuracies For more information, click here to see the Grading Matrix worksheet		n be improved	by addressing the	following components:	
	1: Water imported				
	2: Customer metering inaccuracies 3: Unauthorized consumption	Forn	nore information, click h	ere to see the Grading Mat	rix worksheet

AWWA WLCC Free Water Audit So			Back to Instructions	
Click to access definition Water Audit Report for: Reporting Year:		./2012 - 12/2012		
Please enter data in the white cells below. Where syaliable, metered values should input data by grading each component (1-10) using the drop-down list to the left of the lef	of the input cell. H	over the mouse over the cell to obtain a description of the	ate your confidence in the accuracy of the grades	
WATER SUPPLIED		as: MILLION GALLONS (US) PER YEAR Enter grading in column 'E'		
Volume from own sources: Master meter error adjustment (enter positive value): Water imported: Water exported:	7 1 n/a n/s	2.590 Million gallons (US)/yr (0.000 over-registered 0.000 Mg/Yr 0.000 Mg/Yr	MG/Yr) MG/Yr	
WATER SUPPLIED:		2.590 MG/Yr		
AUTHORIZED CONSUMPTION Billed matered: Billed unmetered: Unbilled matered: Unbilled unmetered:	7 8 10 n/s	2.440 Mg/Yr 0.000 Mg/Yr 0.000 Mg/Yr Pcn 0.032 Mg/Yr 1.2	The state of the s	
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WATER LOSSES (Mater Supplied - Authorized Consumption) Apparent Losses		0.117 Mg/Yr	value:	
Unauthorized consumption: Default option selected for unauthorized consumpti	on - a grad	0.006 MG/Yr 0.2	51 0 0	
Customer metering inaccuracies: Systematic data handling errors:	7 4 2 5	0.050 MG/Yr 2.0 0.000 MG/Yr	0% ● ○ Choose this option to	
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Real Losses - Water Losses - Apparent Losses: WATER LOSSES:		0.061 MG/Yx 0.117 MG/Yr	NOT a default value	
NON-REVENUE WATER NON-REVENUE WATER:	2	0.150 Mg/Yr		
- Total Water Loss + Unbilled Metered + Unbilled Unmetered SYSTEM DATA				
Length of mains: Number of active AND inactive service connections: Connection density: Average length of customer service line:	2 2 2 8	2.0 miles 59 30 conn./mile main 0.0 ft (pipe lange	th between curbstop and customer coparty boundary)	
Average operating pressure:	1	50.0 psi		
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PERFORMANCE INDICATORS				
	cost of ope	MICHON COLLEGE COLUMN C		
Operational Efficiency Indicators Apparent Losses per s	ervice conne	ction per day: 2.62 gall	lons/connection/day	
Real Losses per se	rvice connec	tion per day*: N/A gall	lons/connection/day	
Real Losses per service connection	NEW PROPERTY.	psi pressure: gall	lons/connection/day/psi	
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• only the most applicable of these two indicators will be	calculated			
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1: Volume from own sources 2: Customer metering inaccuracies	For	more information, click here to see the Grading E	Matrix worksheet	
3: Unauthorized consumption				

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Click to access definition Water Audit Report for: Less Reporting Year: 2	liedale 012 1/2012 - 12/2012	
Please enter data in the white cells below. Where available, metered values should be input data by grading each component (1-10) using the drop-down list to the left of the	used; if metered yelues are unavailable please estimate a ve input cell. Hover the mouse over the cell to obtain a descript be entered as: MILLION GALLONS (US) PER YEAR	on of the grades
WATER SUPPLIED	<< Enter grading in column 'E'	
Volume from own sources: Master meter error adjustment (enter positive value):	4 1.539 Million gallons (U 1 0.000 over-registered	S)/yr (MG/Yr) MG/Yr
Water imported: Water exported:	n/a 0.000 MG/Yr n/a 0.000 MG/Yr	
WATER SUPPLIED:	1.539 MG/Yr	
AUTHORIZED CONSUMPTION Billed metered:	8 1.430 Mg/Yr	Click here:
Billed unmetered: Unbilled metered:	10 0.000 MG/Yr n/a 0.000 MG/Yr	Pont: Value:
Unbilled unmetered: Default option selected for Unbilled unmetered	0.019 MG/Yr - a grading of 5 is applied but not disp	
AUTHORIZED CONSUMPTION:	1.449 MG/Yr	t Use buttons to select percentage of water supplied OR
WATER LOSSES (Water Supplied - Authorized Consumption)	0.090 NG/Yr	Value
Unauthorized consumption:	0.004 NG/YE	Pcnt:
Default option selected for unauthorized consumption Customer metering inaccuracies:	- a grading of 5 is applied but not disp:	2.00%
Systematic data handling errors:	5 0.000 Mg/Yr	Choose this option to
Apparent Losses:	0.033	t enter a percentage of billed metered consumption. This is
Real Losses (Current Annual Real Losses or CARL). Real Losses - Water Losses - Apparent Losses:	0.057 Mg/Yr	NOT a default value
WATER LOSSES:	0.090 MG/YE	
NON-REVENUE WATER NON-REVENUE WATER:	0.109 MG/YE	
- Total Water Loss + Unbilled Metered + Unbilled Unmetered SYSTEM DATA		
Dength of mains: Number of active AND inactive Service connections:	2 0.5 miles 8 29	
Connection density: <u>Average</u> length of customer service line:		ipe length between ourbstop and oustones car or property boundary)
Average operating pressure:	1 65.0 psi	
COST DATA		
Total annual cost of operating water system: Customer retail unit cost (applied to Apparent Losse):	10 \$10,850 \$/Year 10 \$7.74 \$/1000 gallons (ne)
Variable production cost (applied to Real Loses):	10 \$600.94 \$/Million gallons	
PERFORMANCE INDICATORS		
Financial Indicators Non-revenue water as percent by vol		.11
	est of Apparent Losses: \$. 8 <u>6</u> 256
Operational Efficiency Indicators	al cost of Real Losses:	534
Apparent Losses per servi		.13 gallons/connection/day
		.39 gallons/connection/day
Real Losses per service connection per		.08 gallons/connection/day/psi
Unavoidable Annu *** UARL cannot be calculated as either average pressure,	number of connecions or length of mains is t	oo small: SEE UARL DEFINITION
From Above, Real Losses = Current As	nnual Real Losses (CARL):	.06
• only the most applicable of these two indicators will be calc	EX CONTRACTOR OF THE PROPERTY	
WATER AUDIT DATA VALIDITY SCORE:		
*** YOUR SCO	RE IS: 63 out of 100 ***	
A weighted scale for the components of consumption and wat PRIORITY AREAS FOR ATTENTION:	er loss is included in the calculation of the	e Water Audit Data Validity Score
Based on the information provided, audit accuracy can be	improved by addressing the following co	mponents:
1: Volume from own sources 2: Customer metering inaccuracies	For more information, click here to see the G	irading Matrix works boot
3: Unauthorized consumption	O' HOLL MANUTAGON, CHAR HELE TO SECURE C	Address Millia dorasticci

AWWA WLCC Free Water Audit Sof		The second secon	Back to Instructions
Click to access definition Water Audit Report for: Zei		2012 - 12/2012	
Please enter data in the white cells below. Where available, metered values should be input data by grading each component (1-10) using the drop-down list to tip left of the	be used; if metere	ed values are unavaliable please estimate a value. Ind	licate your confidence in the accuracy of the grades
WATER SUPPLIED	<< Ent	ter grading in column 'E'	
Volume from own sources: Master meter error adjustment (enter positive value):	2 4 1	1.031 Million gallons (US)/yr 0.000 over-registered	(MG/Yr) MG/Yr
Water imported: Water exported:	7 n/a 2 n/a	0.000 MG/Yr 0.000 MG/Yr	
WATER SUPPLIED:		1.031 MG/Yr	
AUTHORIZED CONSUMPTION Billed metered:	2 8	0.936 MG/YE	Click here: 23 for help using option
Billed unmetered: Unbilled metered:	10 n/a		buttons below ent: Value:
Unbilled unmetered: Default option selected for Unbilled unmetered	d - a gradin	A SOUTH HIS RESIDENCE OF THE PARTY OF THE PA	.258 💿 🔾
AUTHORIZED CONSUMPTION:		0.949 MG/Yr	Use buttons to seject percentage of water supplied
WATER LOSSES (Water Supplied - Authorized Consumption)		0.082 MG/Yr	OR value
Unauthorized consumption:	7	0.003 MG/Yr	.25% 💿 🔾
out to the state of the state o	2 4	0.019 MG/Yr 2.	.00% 📵 💸 000.
Systematic data handling errors:	7 5	0.000 NG/Yz	Choose this option to
Apparent Losses:		0.022	enter a percentage of billed metered consumption. This is
Real Losses (Current Annual Real Losses or CARL) Real Losses - Water Losses - Apparent Losses:	2	0.060 MG/Yr	NOT a default value
WATER LOSSES:		0.082 MG/Yr	
NON-REVENUE WATER NON-REVENUE WATER:	2	0.095 Mg/Yr	
= Total Water Loss + Unbilled Metered + Unbilled Unmetered SYSTEM DATA			
Length of mains: Number of <u>active AND inactive</u> service connections: Connection density:	2 8	0.5 miles 16 32 conn./mile main	
Average length of customer service line:	8	0.0 ft (pipe len merer or	ngth between curbstop and customer property boundary)
Average operating pressure:	2 1	60.0 psi	
COST DATA			
Total annual cost of operating water system: Customer retail unit cost (applied to Apparent Losses); Variable production cost (applied to Real Losses);	10 10 10 10	\$4,077 \$/Year \$8.79 \$/1000 gallons (US) \$692.73 \$/Million gallons	
PERSONANCE INDICATORS			
Pinancial Indicators Non-revenue water as percent by convergence water as percent by converge	ost of opera		
		Real Losses: \$42	
Apparent Losses per serv	vice connect	tion per day: 3.73 ga	allons/connection/day
Real Losses per servi	ice connecti	ion per day*: N/A ga	allons/connection/day
Real Losses per 1		The state of the s	allons/mile/day
Real Losses per service connection pe Unavoidable Ann		osses (UARL): Not Valid	allons/connection/day/psi
*** UARL cannot be calculated as either average pressure, from Above, Real Losses = Current /	, number of c	onnecions or length of mains is too sma	all: SEE UARL DEFINITION
Infrastructure Leakage 1			
* only the most applicable of these two indicators will be cal	lculated		
WATER AUDIT DATA VALIDITY SCORE:			
*** YOUR SCO		63 out of 100 *** included in the calculation of the Water	on Budit Data Validity Score
PRIORITY AREAS FOR ATTENTION:			
Based on the information provided, audit accuracy can b	e improved l	by addressing the following component	nts:
2: Customer metering inaccuracies	For mo	ore information, click here to see the Grading	a Matrix worksheet
3: Unauthorized consumption			

AWWA WLCC Free Water Audit So			Back to Instructions
Click to access definition Water Audit Report for:	Murray Lodge		
Reporting Year:	1000	/2012 - 12/2012	
Please enter data in the white cells below. Where evallable, metered values shot input data by grading each component (1-10) using the drop-down list to the left. All Volume	of the input cell. He	over the mouse over the cell to obtain a description of the gr it as: MILLION GALLONS (US) PER YEAR	a your considence in the acouracy of the ades
WATER SUPPLIED Volume from own sources:	<< E	Enter grading in column 'E' 3.293 Million gallons (US)/ŷr (M	
Master meter error adjustment (enter positive value): Water imported:	7 1	0.000 over-registered 0.000 MG/Yr	MG/Yr
Water exported:	n/a n/a	0.000 MG/Yr	
WATER SUPPLIED:		3.293 MG/Yr	
AUTHORIZED CONSUMPTION Billed metered;	8	3.182 MG/Yr	Click here: for help using option buttons below
Billed unmetered: Unbilled metered:	7 10 n/a	0.000 MG/YE Pont:	
Unbilled unmetered: Default option selected for Unbilled unmete	red - a grad	0.041 MG/Yr 1.25 ing of 5 is applied but not displayed	₹
AUTHORIZED CÓNSUMPTIÓN;		3.224 Mg/Yr	Use buttons to select percentage of water supplied
	APPROPRIESTS	0.000	- OR value -
WATER LOSSES (Water Supplied - Authorized Consumption) Apparent Losses		0.069 MG/Yr	value:
Unauthorized consumption: Default option selected for unauthorized consumpti	on - a gradi	0.008 MG/Yr ing of 5 is applied but not displayed	00
Customer metering inaccuracies:		0.065 Mg/Yr 2.00	
Systematic data handling errors:	7 3	0.000 MG/Yz	Choose this option to
Apparent Losses: Check input values: APPARENT LOSSES	should be 1	less than WATER LOSSES	enter a percentage of billed metered consumption. This is
Real Losses (Current Annual Real Losses or CARL) Real Losses - Water Losses - Apparent Losses:	2	-0.004 Mg/Yr	NOT a default value
WATER LOSSES:		0.069 MG/Yz	
NON-REVENUE WATER NON-REVENUE WATER:		0.110	
- Total Water Loss + Unbilled Metered + Unbilled Unmetered		0.110 MG/Yr	
SYSTEM DATA Length of mains:	7 4	0.6 miles	
Number of <u>active AND inactive</u> service connections: Connection density:	8	58 98 conn./mile main	
Average length of customer service line:	7 8		between curbstop and customer perty boundary)
Average operating pressure:	7 1	55.0 psi	
COST DATA			
Total annual cost of operating water system: Customer retail unit cost (applied to Apparent Losses):	2 10	\$15,396 \$/Year \$8.89 \$/1000 gallons (US)	
Variable production cost (applied to Real Lesses):	10	\$573.16 \$/Million gallons	
PERFORMANCE INDICATORS			
Financial Indicators	waluma of M	Pater Supplied a 2 Au	
Non-revenue water as percent by Non-revenue water as percent by	cost of ope	rating system: 4.4%	
		parent Losses: \$651 If Real Losses: -\$2	
Operational Efficiency Indicators Apparent Losses per s	erudee conne	ortion per days	ons/connection/day
Real Losses per se			ons/connection/day
Real Losses pe	r length of	main per day*: N/A	
Real Losses per service connection			ons/connection/day/psi
Unavoidable	THE RESIDENCE OF THE PARTY OF T	Losses (UARL): Not Valid connecions or length of mains is too small	; SEE UARL DEFINITION ***
From Above, Real Losses - Currer			
• only the most applicable of these two indicators will be		(CARL/OARL):	
WATER AUDIT DATA VALIDITY SCORE:			
	CORE IS:	: 54 out of 100 ***	
A weighted scale for the components of consumption and	water loss i	s included in the calculation of the Water	Audit Data Validity Score
PRIORITY AREAS FOR ATTENTION:			
Based on the information provided, audit accuracy can 1: Volume from own sources	De Improve	u by addressing the following components	
2: Customer metering inaccuracies	For	more information, click here to see the Grading M	atrix worksheet
3: Unauthorized consumption			

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Click to access definition Water Audit Report for: Nevitt/Lec Reporting Year: 2012	on/Normandy 1/2012 - 12/2012	
Please enter data in the white cells below. Where available, metered values should be used; if input data by grading each component (1-10) using the drop-down list to the left of the input of	matered values are unavailable please estimate a value. Indice	ate your confidence in the accuracy of the
All volumes to be ente	red as: MILLION GALLONS (US) PER YEAR	
Volume from own sources: 2 4	< Enter grading in column 'E' 0.686 Million gallons (US)/yr (
Master meter error adjustment (enter positive value): 2 1 Water imported: 2 1 Water exported: 2 n/e	0.034 over-registered Mg/Yr 0.000 Mg/Yr	MG/Yr
WATER SUPPLIED:	19.536 MG/Yz	
AUTHORIZED CONSUMPTION Billed metered: 8	18.650 MG/Yr	Click here: 2 for help using option buttons below
Billed unmetered: 10 Unbilled metered: 10 n/a	0.000 MG/Yr 0.000 MG/Yr Pon	t: Value:
Unbilled unmetered: 2 Default option selected for Unbilled unmetered - a gr	0.244 MG/Yr 1.2 rading of 5 is applied but not displayed	1
AUTHORIZED CONSUMPTION: 7	18.895 MG/Yr	Use buttons to select percentage of water supplied OR
WATER LOSSES (Water Supplied - Authorized Consumption)	0.642 Mg/Yr	value —
Apparent Losses Unauthorized consumption:	0.049 MG/Yr 0.2	
Default option selected for unauthorized consumption - a gr Customer metering inaccuracies: 2 4	ading of 5 is applied but not displayed 0.381 MG/Yr 2.0	08 💿 🔾
Systematic data handling errors: 5	0.000 MG/YE	Choose this option to
Apparent Losses:	0.430	enter a percentage of billed metered consumption. This is
Real Losses (Current Annual Real Losses or CARL) Real Losses - Water Losses - Apparent Losses:	0.212 MG/Yr	NOT a default value
WATER LOSSES:	0.642 MG/YE	
NON-REVENUE HATER NON-REVENUE WATER:	0.886 MG/Yr	
- Total Water Loss + Unbilled Metered + Unbilled Unmetered SYSTEM DATA		
Length of mains: 2 2 Number of active AND inactive service connections: 9 8	8.7 miles 366	
Connection density: Average length of customer service line: 8	0.0 ft (pipe leng meter or p	th between curbstop and customer roperty boundary)
Average operating pressure: 1	52.0 psi	
COST DATA		
Total annual cost of operating water system: 10 Customer retail unit cost (applied to Apparent Losses): 10	\$124,004 \$/Year \$9.08 \$/1000 gallons (US)	
Variable production cost (applied to Real basses): 2 10	\$4,326.09 \$/Million gallons	
PERFORMANCE INDICATORS Financial Indicators		
Non-revenue water as percent by volume of Non-revenue water as percent by cost of o	NAME OF TAXABLE PARTY O	
Annual cost of	Apparent Losses: \$3,900 t of Real Losses: \$918	
Operational Efficiency Indicators Apparent Losses per service co	nnection per day:	lons/connection/day
Real Losses per service con		lons/connection/day
Real Losses per length o		
Real Losses per service connection per day p Unavoidable Annual Re	al Losses (UARL): Not Valid	lons/connection/day/psi
*** UARL cannot be calculated as either average pressure, number From Above, Real Losses = Current Annual R		11: SEE UARL DEFINITION ***
Infrastructure Leakage Index (
* only the most applicable of these two indicators will be calculated WATER AUDIT DATA VALIDITY SCORE;		
The second secon	S: 56 out of 100 ***	
A weighted scale for the components of consumption and water los	s is included in the calculation of the Water	r Audit Data Validity Score
PRIORITY AREAS FOR ATTENTION: Based on the information provided, audit accuracy can be impro	wed by addressing the following component	ts:
1: Water imported		
2: Master meter error adjustment 3: Volume from own sources	or more information, click here to see the Grading	Wattra Worksheet
		The state of the s

AWWA WLCC Free Water Audit Softw Copyright © 2010 American White Works Association	Back to Instructions
Click to access definition Water Audit Report for: Peppe Reporting Year: 201	aridge 12 1/2012 - 12/2012
Please enter data in the white cells below. Where available, metered values should be uniput data by grading each component (1-10) using the drop-down list to the left of the injury.	sed; if metered values are unavailable please estimate a value, indicate your confidence in the accoursoy of the
WATER SUPPLIED	<< Enter grading in column 'E'
Waster meter error adjustment (enter positive value): Water imported: Water exported:	1 0.000 MG/Yr MG/Y
WATER SUPPLIED:	3.852 Mg/YE
AUTHORIZED CONSUMPTION Billed metered: Billed unmetered: Unbilled metered:	Clok here: 2
Unbilled unmetered: Default option selected for Unbilled unmetered - AUTHORIZED CONSUMPTION: 2	0.048 Mg/Yr a grading of 5 is applied but not displayed 2.321 Mg/Yr Use buttons to select percentage of water supplied
WATER LOSSES (Water Supplied - Authorized Consumption)	1.531 Mg/Yr
Apparent Losses Unauthorized consumption:	0.010 M5/Yr 0.25 O
Default option selected for unauthorized consumption - Customer metering inaccuracies:	a grading of 5 is applied but not displayed 4 0.046 Mg/Yr 2.00% 💮 🔾
Systematic data handling errors:	5 0.000 MG/Yz Choose this option to enter a percentage of
Apparent Losses; 1	0.056 billed metered consumption. This is NOT a default value
Real Losses - Water Losses - Apparent Losses: 2 WATER LOSSES;	1.475 NG/YE 1.531 NG/YE
NON-REVENUE WATER NON-REVENUE WATER: - Total Water Loss + Unbilled Metered + Unbilled Unmetered SYSTEM DATA	1.579 MG/Yr
Length of mains: Number of <u>active AND inactive</u> service connections: Connection density:	2 2.0 miles 8 50 25 conn./mile main
Average length of customer service line: Average operating pressure:	9 0.0 ft (pipe length between outbetop and oustomer mater or property boundary) 1 55.0 psi
COST DATA Total annual cost of operating water system: Customer retail unit cost (applied to Apparent Lassem): Variable production cost (applied to Real Lassem): 2	10 \$10,088 \$/Year 10 \$9.20 \$/1000 gallons (US) 10 \$372.74 \$/Million gallons
PERFORMANCE INDICATORS	
	of operating system: 10.71 to f Apparent Losses: \$516
Operational Efficiency Indicators	cost of Real Losses: \$550
Apparent Losses per service Real Losses per service	
Real Losses per service connection per de	ngth of main per day*: 2,020.77 gallons/mile/day day per psi pressure: gallons/connection/day/psi
Unavoidable Annua	al Real Losses (UARL): Not Valid umber of connections or length of mains is too small: SEE UARL DEFINITION ***
From Above, Real Losses - Current Ann Infrastructure Leakage Inde	nuel Real Losses (CARE): 1.48 Sex (ILI) [CARL/UARL]:
* only the most applicable of these two indicators will be calcular HATER AUDIT DATA VALIDITY SCORE:	114 (104)
	E IS: 63 out of 100 ***
PRIORITY AREAS FOR ATTENTION:	r loss is included in the calculation of the Water Audit Data Validity Score
Based on the information provided, audit accuracy can be in 1: Volume from own sources	
2: Customer metering inaccuracies 3: Unauthorized consumption	For more information, click here to see the Grading Matrix worksheet

AWWA WLCC Free Water Audit St		The Real Property lies, the Person lies,	g Worksheet	Back to Instructions
Click to access definition Water Audit Report for:	Surfside		paus liusunia is ministrania	
Reporting Year: Please enter data in the white cells below. Where available, metered values sho	The second	/2012 - 12/2012		
input data by grading each component (1-10) using the drop-down list to the left	of the input cell, H	over the mouse over th	the cell to obtain a description of the gr LONS (US) PER YEAR	e your confidence in the accuracy of the ades
WATER SUPPLIED		Enter grading in		
Volume from own sources: Master meter error adjustment (enter positive value):	n/a	0.000	Million gallons (US)/yr (Mo over-registered	G/Yr) MG/Yr
Water imported: Water exported:	7 4 n/a		MG/Yr MG/Yr	
WATER SUPPLIED:		0.932	MG/Yr	
AUTHORIZED CONSUMPTION Billed metered:	8	1.048	MG/Yr	Click here: 22 for help using option buttons below
Billed unmetered: Unbilled metered:	10 n/a	0.000	MG/Yr Pont:	NEGOTIAL PROPERTY OF THE PROPE
Unbilled unmetered: Default option selected for Unbilled unmete	red - a grad		HG/Yr 1.25	8
AUTHORIZED CONSUMPTION:		1.060	MG/YE	Use buttons to select percentage of water supplied
Check input values; WATER SUPPLIED show		oracia. Umparo presentante en		QR value —
WATER LOSSES (Water Supplied - Authorized Consumption) Apparent Losses		-0.128	MG/Yr Pont:	: Value:
Unauthorized consumption: Default option selected for unauthorized consumpt:	ion - a grad	0.002	MINISTER STATE OF THE PERSON NAMED OF THE PERSON NAMED IN COLUMN NAMED IN COLU	
Customer metering inaccuracies:		0.021	MG/Yr 2.00	
Systematic data handling errors:	7 5	0.000	NG/Yr	Choose this option to
Apparent Losses: Check input values; APPARENT LOSSE:	The second second second	less than WATER	LOSSES	enter a percentage of billed matered consumption. This is
Real Losses (Current Annual Real Losses or CARL). Real Losses - Water Losses - Apparent Losses:		-0.152	MG/Yr	NOT a default value
WATER LOSSES:		-0.128	MG/YE	
NON-REVENUE WATER NON-REVENUE WATER:	7	-0.117	MG/Yr	
- Total Water Loss + Unbilled Metered + Unbilled Unmetered		-0.117	PIG/II	
SYSTEM DATA Length of mains:	2	0.7	miles	
Number of active AND inactive service connections: Connection density:	8	21 30	conn./mile main	
Average length of customer service line:	8	0.0		between curbstop and customer perty boundary)
Average operating pressure:	7 1	60.0	psi	
COST DATA				
Total annual cost of operating water system: Customer retail unit cost (applied to Apparent Losses):	10	\$4,054 \$6.09	\$/Year \$/1000 gallons (US)	
Variable production cost (applied to Real Losses):	2 10			
PERFORMANCE INDICATORS				
Financial Indicators	tolime of b	later Supplied:	-12.5%	
Non-revenue water as percent by Non-revenue water as percent by	cost of ope		-1.94 \$145	
A	NAMED IN COLUMN 2	of Real Losses:		
Operational Efficiency Indicators Apparent Losses per s	ervice conne	ction per day:	3.11 gallo	ons/connection/day
Real Losses per se				ns/connection/day
Real Losses pe	r length of	main per day*:	-595.12 gallo	ns/mile/day
Real Losses per service connection	AND THE PERSON NAMED IN			ns/connection/day/psi
*** UARL cannot be calculated as either average pressu	ire, number of		ength of mains is too small	: SEE UARL DEFINITION ***
From Above, Real Losses - Currer Infrastructure Leakag				
• only the most applicable of these two indicators will be		./ [CARD/UAKL]:		
MATER AUDIT DATA VALIDITY SCORE:				
*** YOUR S	CORE IS	: 63 out of	£ 100 ***	
A weighted scale for the components of consumption and	i water loss i	s included in the	e calculation of the Water	Audit Data Validity Score
PRIORITY AREAS FOR ATTENTION: Based on the information provided, audit accuracy can	n be imprese	d by addressing	the following components	
1: Water imported	an improve	A Land Constitution	Components	
2: Customer metering inaccuracies	For	more information, c	click here to see the Grading M	atrix worksheet
3: Unauthorized consumption				

AWWA WLCC Free Water Audit So Capyright C 2010 American Water Works Asso			g Worksheet	Back to Instructions
Click to access definition Water Audit Report for: Reporting Year:		- 401119 1/2012 - 12/2012		
Please enter data in the white cells below, Where svallable, metered values should input data by grading each component (1510) using the drop-down list to the left of All Volume	of the input cell. H	lover the mouse over th	ilable please estim <u>ate a</u> value. Indica he cell to obtain a description of the g LONS (US) PER YEAR	ite your confidence in the accuracy of the rades
WATER SUPPLIED Volume from own sources: Master meter error adjustment (enter positive value): Water imported: Water exported: WATER SUPPLIED:	7 4 1 n/a		Million gallons (US)/yr (M under-registered MG/Yr MG/Yr	GG/Yr) MG/Yr
AUTHORIZED CONSUMPTION Billed metered: Billed unmetered: Unbilled metered: Unbilled unmetered: Default option selected for Unbilled unmeter	192	0.253 0.000 0.000 0.000 0.004 ding of 5 is app	MG/Yr MG/Yr MG/Yr MG/Yr Pont 1.25 plied but not displayed	
AUTHORIZED CONSUMPTION: WATER LOSSES (Water Supplied - Authorized Consumption) Apparent Losses Unsuthorized consumption:		0.030	MG/Yr	percentage of water supplied OR value Value:
Default option selected for unauthorized consumpti Customer metering inaccuracies: Systematic data handling errors: Apparent Losses:	3 4 5	0.005 0.000 0.006	MG/Yr 2.00	Choose this option to enter a percentage of billed metered
Real Losses (Current Annual Real Losses or CARL) Real Losses = Water Losses - Apparent Losses: WATER LOSSES: NON-REVENUE WATER NON-REVENUE WATER:		0.024		oonsumption. This is NOT a default value
Total Water Loss + Unbilled Metered + Unbilled Unmetered STSTEM DATA Length of mains: Number of active AND inactive service connections: Connection density: Average length of customer service line: Average operating pressure:		1.0 10 10 0.0	miles conn./mile main ft (pipe lengt) meter or po	h botween curbstop and customer operty boundary)
COST DATA Total annual cost of operating water system: bustomer retail unit cost (applied to Apparent Losses): Variable production cost (applied to Real Losses):	10 10 10 10	\$3,034 \$13.24 \$3,276.61	S/Year S/1000 gallons (US) S/Million gallons	
	cost of ope		\$79	
Apparent Losses per se Real Losses per se Real Losses per Real Losses per service connection	rvice connect r length of a per day per	ction per day*: main per day*:	N/A]gsll. 67.10]gsll. gsll.	ons/connection/day ons/connection/day ons/mile/day ons/connection/day/psi
From Above, Real Losses - Curren Infrastructure Leakage only the most applicable of these two indicators will be	nt Annual Rea pe Index (ILI	f connecions or 1	ength of mains is too small	: SEE UARL DEFINITION ***
*** YOUR S A weighted scale for the components of consumption and FRIGRITY AREAS FOR ATTENTION: Based on the information provided, audit accuracy can 1: Volume from own sources	i water loss :		e calculation of the Water	
2: Master meter error adjustment 3: Customer metering inaccuracies	For	more information,	click here to see the Grading M	istrix worksheet

AWWA WLCC Free Water Au	dit Software		g Worksheet	Back to Instructions
Click to access definition	oort for: Valleymere	1/2012 - 12/2012		
Please enter data in the white cells below. Where available, meters input data by grading each component (1-10) using the drop-down to	d values should be used; if me	tered values are unava- loyer the mouse over th	ilable please estimate a value. Indic ne cell to obtain a description of the	ate your confidence in the accuracy of the grades
WATER SUPPLIED		Enter grading in	and the second s	
Volume from own Master meter error adjustment (enter positive	MCCORDONALD STRUCTURE CONTROL		Million gallons (US)/yr (MG/Yr) MG/Yr
Water	mported: n/a	0.000	over-registered MG/Yr	P69/11
	uppried: 7 n/a	1.103		
AUTHORIZED CONSUMPTION				College 2
Billed	metered: 8	1.072	MG/Yr	Click here:
Billed un Unbilled	THE PERSON NAMED IN COLUMN 2 I	0.000		
Unbilled un Default option selected for Unbill	DESCRIPTION OF STREET STREET,	0.014	STORY OF THE PARTY	58 💿 🔾
AUTHORIZED CONS		1.086		Use buttons to select
WATER LOSSES (Water Supplied - Authorised Cor		0.017	MG/Yr	percentage of water supplied OR value —
Apparent Losses			Pon	t: Value:
Unauthorized cons	THE RESERVE TO SHARE THE PARTY OF THE PARTY	0.003	THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO	
Default option selected for unauthorized Customer metering inacc	No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street,	ing of 5 is app	MG/Yr 2.0	08 0
Systematic data handling		0.000	ALCOHOLD STREET, STREE	
Apparent Check input values; APPARE	Losses: 2	loca than Warra	LOSSES	Choose this option to enter a percentage of billed metered
Real Losses (Current Annual Real Losses or C	RLI	INTERNATION OF THE STREET		consumption. This is NOT a default value
Real Losses - Water Losses - Apparent	LOSSES:	-0.008 0.017	HG/YE	
	LOSSES:	0.017	MG/Yr	
NON-REVENUE WATER NON-REVENU	E WATER:	0.031	MG/Yr	
- Total Water Loss + Unbilled Metered + Unbilled SYSTEM DATA	Unmetered	Maria Cara	ernuncuscipus rod Brandau - Jakilanosa	
	of mains; 2	0.9	miles	
Number of <u>active AND inactive</u> service conf Connection	DESCRIPTION OF THE PERSON OF T	23 26	conn./mile main	
Average length of customer servi		0.0	ft (pipe leng	th between curbstop and customer roperty boundary)
Average operating p	oressure: 1	50.0	psi	
COST DATA				
Total annual cost of operating water	CONTRACTOR OF THE PERSON NAMED IN	\$4,861	5/Year	
Customer retail unit cost (applied to Apparer Variable production cost (applied to Rea	DOT OF THE OWNER OWNER OF THE OWNER OW	\$9.34 \$603.13	\$/1000 gallons (US) \$/Million gallons	
PERFORMANCE INDICATORS				
Financial Indicators Non-revenue water as p	ercent by volume of	Water Supplied:	2.8%	
Non-revenue water as p	ercent by cost of op Annual cost of A		\$231	
		of Real Losses:		
Operational Efficiency Indicators Apparent Los	ses per service conn	ection per days	2 95	lons/connection/day
	es per service conne		THE PERSON NAMED IN	lons/connection/day
	Losses per length of	NEW AND THE PARTY NAMED IN		lons/mile/day
Real Losses per service c				lons/connection/day/psi
Una	voidable Annual Real	Losses (UARL):	Not Valid	
*** UARL cannot be calculated as either aver From Above, Real Losse				1: SEE UARL DEFINITION ***
	re Leakage Index (IL		HURSHIN - HEREN	
* only the most applicable of these two indicator	THE PARTY AND THE PARTY AND THE			
MATER AUDIT DATA VALIDITY SCORE:	Part No. of Street			
***	YOUR SCORE IS	: 63 out o	f 100 ***	
A weighted scale for the components of consu	mption and water loss	is included in th	ne calculation of the Water	Audit Data Validity Score
PRIORITY AREAS FOR ATTENTION:				
Based on the information provided, audit acc	uracy can be improve	ed by addressing	the following component	isi
1: Volume from own sources				
2: Customer metering inaccuracies	For	more information.	click here to see the Grading I	viatrix worksheet
3: Unauthorized consumption		IR LANDS	LEAN ENGLISHED BY	

AWWA WLCC Free Water Audit Sc Gopymph © 2010 American Water Works Asso		The same of the sa	g Worksheet	Back to Instructions
Click to access definition Water Audit Report for: Reporting Year:	Name and Address of the Owner, where the Persons of the Owner, where the Persons of the Owner, where the Owner, which the Own	1/2012 - 12/2012		
Please enter data in the white cells below. Where available, metered values shou input data by grading each component (1-10) using the drop-down list to the left of	of the input cell. H	over the mouse over th	ie cell to obtain a description of th	dicate your confidence in the accuracy of the e grades
	CONTRACTOR DESCRIPTION	Indiana uma petermina	LONS (US) PER YEAR	
WATER SUPPLIED Volume from own sources:	22 4	Enter grading in 8.301	n column 'E' Million gallons (US)/yr	(MG/Yr)
Master meter error adjustment (enter positive value): Water imported:	75 1 75 n/a	0.000	over-registered	MG/Yr
Water exported:	n/a	0.000	MG/YE	
WATER SUPPLIED:		8.301	MG/Yr	
AUTHORIZED CONSUMPTION Billed metered:	8	7.181	HG/Yp	Click here: 22 for help using option
Billed unmetered: Unbilled metered:	7 10 n/a	0.000	MG/YE PC	buttons below ent: Value:
Unbilled unmetered:	7.	0.104	Sheeth Control of the	.25 🔘 🔾
Default option selected for Unbilled unmeter AUTHORIZED CONSUMPTION:	red - a grad	7.285	MG/Yr	Use buttons to select
				percentage of water supplied OR value
WATER LOSSES (Water Supplied - Authorized Consumption)		1.016	MG/Yr	
Apparent Losses Unauthorized consumption:	2	0.021	Control of the last of the las	nt: Value:
Default option selected for unauthorized consumpti	on - a grad	ing of 5 is app	lied but not displayed	
Customer metering inaccuracies: Systematic data handling errors:	2 4	0.147	MG/YD 2.	.00% 🔘 🔾
				Choose this option to enter a percentage of
Apparent Losses:		0.167		billed metered consumption. This is
Real Losses (Current Ahmual Real Losses or CARL) Real Losses = Water Losses - Apparent Losses:		0.849	MG/Yr	NOT a default value
WATER LOSSES:		1.016	MG/YE	
NON-REVENUE WATER				
NON-REVENUE WATER: - Total Water Loss + Unbilled Metered + Unbilled Unmetered		1.120	MG/Yr	
SYSTEM DATA	C. C. Vi Tiers			
Length of mains: Number of <u>active AND inactive</u> service connections:	3 4	1.7 145	miles	
Connection density: <u>Average</u> length of customer service line:	2 8	0.0		outh between curbstop and customer
Average operating pressure:	1	60.0		property boundary)
			TOTAL STREET	
COST DATA				
Total annual cost of operating water system: Customer retail unit cost (applied to Apparent Losses):	10	\$23,385 \$8.96	\$/Year \$/1000 gallons (US)	
Variable production cost (applied to Real Losses):	2 10	\$484.20	\$/Million gallons	
PERFORMANCE INDICATORS				
Financial Indicators	relime of t	latar Compliade	12.53	
Non-revenue water as percent by Non-revenue water as percent by	cost of ope	rating system:	13.5	
		parent Losses: of Real Losses:		
Operational Efficiency Indicators				
Apparent Losses per se Real Losses per se			Part and the Tennion of the Land of the	llons/connection/day
		main per day*:	NAME OF TAXABLE PARTY.	ALVAS COMMECCION day
Real Losses per service connection	Marie San L		Proposition of the second	llons/connection/day/psi
Unavoidable i	Annual Real	Losses (UARL):	Not Valid	
*** UARL cannot be calculated as either average pressu. From Above, Real Losses = Curren			The second second second	all: SEE UARL DEFINITION
Infrastructure Leakage				
* only the most applicable of these two indicators will be				
WATER AUDIT DATA VALIDITY SCORE:				
*** YOUR S	CORE IS	: 64 out o	f 100 ***	
A weighted scale for the components of consumption and	water loss	is included in th	e calculation of the Wat	er Audit Data Validity Score
PRIORITY AREAS FOR ATTENTION:				
Based on the information provided, audit accuracy can 1: Volume from own sources	be improve	d by addressing	the following compone	nts:
2: Customer metering inaccuracies	For	more information,	click here to see the Grading	Matrix worksheet
3: Unauthorized consumption				

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Click to access definition Water Audit Report for: Windy Run Reporting Year: 2012	1/2012 - 12/2012
Please enter data in the white cells below. Where available, metered values should be used; if	metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the
input data by grading each component (1-10) using the drop-down list to the left of the input ce All volumes to be enti	II. Hover the mouse over the cell to obtain a description of the grades ered as: MILLION GALLONS (<u>US</u>) PER YEAR
	< Enter grading in column 'E'
Master meter error adjustment (enter positive value): 2 1	1.534 Million gallons (US)/yr (MG/Yr) 0.000 over-registered MG/Yr
Water imported: // n/a Water exported: // n/a	0.000 Mg/Yr 0.000 Mg/Yr
WATER SUPPLIED:	1.534 Mg/Yr
AUTHORIZED CONSUMPTION	Click here:
Billed metered: 8 Billed unmetered: 10	1.268 Ms/Yr for help using option 0.000 Ms/Yr buttons below
Unbilled metered: // n/a Unbilled unmetered:	0.000 Mg/Yr Pcnt: Value: 0.019 Mg/Yr 1.254 © O
	rading of 5 is applied but not displayed
AUTHÖRIZED CONSUMPTION:	1.287 MG/Yz Use buttons to select percentage of Water supplied
WATER LOSSES (Water Supplied - Authorized Consumption)	0.247 MG/Yr
Apparent Losses	Pont: Value:
Unauthorized consumption: Default option selected for unauthorized consumption - a gr	0.004 Mg/Yr 0.251 ® O
Customer metering inaccuracies:	0.026 Mg/Yr 2.00% © O
Systematic data handling errors: 5	0.000 Mg/Yz Choose this option to
Apparent Losses:	0.030 enter a percentage of billed metered
Real Losses (Current Annual Real Losses or CARL)	oonsumption. This is NOT a default value
Real Losses - Water Losses - Apparent Losses: 7	0.217 MG/Yr
	0.247 MG/YE
NON-REVENUE WATER NON-REVENUE WATER:	0.266 MG/Yr
- Total Water Loss + Unbilled Metered + Unbilled Unmetered SYSTEM DATA	
Length of mains: 2	1.5 miles
Number of active AND inactive service connections: 8 Connection density:	35 23 conn./mile main
Average length of customer service line: [7] 8	0.0 ft (pipe length between curbstop and customer meter or property boundary)
Average operating pressure: 1	50.0 pai
COST DATA	
Total annual cost of operating water system:	\$5,662 \$/Year
Customer retail unit cost (applied to Apparent Losses): 2 10 Variable production cost (applied to Real Losses): 2 10	\$10.14 \$/1000 gallons (US) \$436.16 \$/Million gallons
PERFORMANCE INDICATORS	
Financial Indicators Non-revenue water as percent by volume o	
Non-revenue water as percent by cost of Annual cost of	Operating system: 7.2% Apparent Losses: \$302
	t of Real Losses: \$95
Operational Efficiency Indicators	2 22 33 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
Apparent Losses per service co Real Losses per service con	
Real Losses per length	
Real Losses per service connection per day	
Unavoidable Annual Re	al Losses (UARL): Not Valid
*** UARL cannot be calculated as either average pressure, number From Above, Real Losses - Current Annual F	of connecions or length of mains is too small: SEE UARL DEFINITION *** Neal Losses (CARL): 0.22
Infrastructure Leakage Index (
• only the most applicable of these two indicators will be calculated	
HATER AUDIT DATA VALIDITY SCORE:	
*** YOUR SCORE I	S: 63 out of 100 ***
A weighted scale for the components of consumption and water los	s is included in the calculation of the Water Audit Data Validity Score
PRIORITY AREAS FOR ATTENTION:	
Based on the information provided, audit accuracy can be impro 1: Volume from own sources	oved by addressing the following components:
	or more information, click here to see the Grading Matrix worksheet
3: Unauthorized consumption	

Click to access definition Water Audit Report for: Woodbridge Raporting Year: 2012 1/2012 - 12/2012 Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (1-10) using the drop-down list to the left of the input cell! Hower the mouse over the cell to obtain a description of the grades All volumes to be entered as: MILLION GALLONS (US) PER YEAR WATER SUPPLIED Volume from own sources: 4
Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (1-10) using the drop-down list to the left of the input cell. Hower the mouse over the cell to obtain a description of the grades All volumes to be entered as: MILLION GALLONS (US) PER YEAR WATER SUPPLIED Volume from own sources: 4 3.839 Million gallons (US)/yr (MG/Yr) Water imported: Water imported: Water exported: Wate
All volumes to be entered as: MILLION GALLONS (US) PER YEAR WATER SUPPLIED Volume from own sources: Water imported: Water imported: Water imported: Water exported: Water
Volume from own sources: 33 4 3.839 Million gallons (US)/yr (MG/Yr) Master meter error adjustment (enter positive value): 31 0.000 over-registered MG/Yr Water imported: 30 n/a 0.000 MG/Yr Water exported: 30 n/a 0.000 MG/Yr Water exported: 30 n/a 0.000 MG/Yr WATER SUPPLIED: 3.839 MG/Yr AUTHORIZED CONSUMPTION Billed metered: 30 0.000 MG/Yr Unbilled unmetered: 31 0 0.000 MG/Yr Unbilled metered: 32 0 0.000 MG/Yr Unbilled unmetered: 32 0.000 MG/Yr Pont: Value: 1.25% ① 1.25% ② 1.25% ③ 1.25% ② 1.25% ② 1.25% ③ 1.25% ③ 1.25% ③ 1.25% ③ 1.25% ③ 1.25% ③ 1.25% ③ 1.25% ③ 1.25% ③ 1.25% ③ 1.25% ③ 1.25% ③ 1.25% ③ 1.25% ③ 1.25% ③ 1.25% ③ 1.25% ③ 1.25% ④ 1.25% ⑥
Master meter error adjustment (enter positive value): Water imported: Water exported: Wa
Water imported:
WATER SUPPLIED: 3.839 MG/YF AUTHORIZED CONSUMPTION Billed metered: Billed unmetered: Unbilled metered: Unbilled metered: Unbilled metered: Unbilled unmetered: Unbilled unmetered a grading of 5 is explied but not displayed Default option selected for Unbilled unmetered - a grading of 5 is explied but not displayed Use buttons to select
Billed metered: Billed unmetered: Unbilled metered: Unbilled unmetered: Unbilled unmetered: Unbilled unmetered: Unbilled unmetered a grading of 5 is applied but not displayed Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed Use buttons to select
Billed unmetered: 10 0.000 Mg/Yr buttons below Unbilled metered: 10 n/s 0.000 Mg/Yr Pont: Value: Unbilled unmetered: 10 0.048 Mg/Yr Pont: Value: Unbilled unmetered 10 0.048 Mg/Yr 1.25% 0 Unbilled unmetered 2 a grading of 5 is explicit but not displayed Use buttons to select
Unbilled unmetered: 0.048 Mg/Yr 1.25% O Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed Use buffings to select
Use buttons to select
AUTIORIZED COMBURETION .
Check input values; WATER SUPPLIED should be greater than AUTHORIZED CONSUMPTION
WATER LOSSES (Mater Supplied - Authorized Consumption) -0.281 Mg/Yr
Apparent Losses Unauthorized consumption: Unauthorized consumption: O.010 MS/Yr O.251 © O
Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed
Customer metering inaccuracies: 4 0.083 MS/Yr 2.00% © C
Choose this option to enter a percentage of billed metered
Check input values; APPARENT LOSSES should be less than WATER LOSSES consumption. This is
Real Losses (Current Annual Real Losses or CARL) Real Losses - Water Losses - Apparent Losses:0.374 MG/Yr
WATER LOSSES: -0.281 MG/Yr
NON-REVENUE WATER: 02 -0.233 MG/Yr
> Total Water Loss + Unbilled Metered + Unbilled Unmetered
Length of mains: 7 2 1.5 miles
Number of active AND inactive service connections: 8
Average length of customer service rans metar or property boundary)
Average operating pressure: [7] [1] 45.0 psi
COST DATA
Total annual cost of operating water system: 10 \$16,068 \$/Year Customer retail unit cost (applied to Apparent Losses): 10 \$8.43 \$/1000 gallons (US)
Variable production cost (applied to Real Losses): 2 10 \$1,550.62 \$/Million gallons
PERFORMANCE INDICATORS
Financial Indicators
Non-revenue water as percent by volume of Water Supplied: Non-revenue water as percent by cost of operating system: 1.74 Annual cost of Apparent Losses: \$782
Annual cost of Apparent Losses: \$782 Annual cost of Real Losses: -\$579
Operational Efficiency Indicators Apparent Losses per service connection per day: 3.79 gallons/connection/day
Real Losses per service connection per day*: -15.27 gallons/connection/day
Real Losses per length of main per day*: N/A
Real Losses per service connection per day per psi pressure: -0.34 gallons/connection/day/psi
Unavoidable Annual Real Losses (UARL): Not Valid *** UARL cannot be calculated as either average pressure, number of connections or length of mains is too small: SEE UARL DEFINITION ***
From Above, Real Losses - Current Annual Real Losses (CARL): -0.37
Infrastructure Leakage Index (ILI) [CARL/UARL]:
* only the most applicable of these two indicators will be calculated
*** YOUR SCORE IS: 63 out of 100 ***
A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score
PRIORITY AREAS FOR ATTENTION:
Based on the information provided, audit accuracy can be improved by addressing the following components:
1: Volume from own sources 2: Customer metering inaccuracies For more information, click here to see the Grading Matrix worksheet